## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018807

		1 101/01/	10891019901
A. CLASSIFIC Int.Cl <sup>7</sup>	CATION OF SUBJECT MATTER F24C1/00		
According to Inte	ernational Patent Classification (IPC) or to both nationa	I classification and IPC	
B. FIELDS SE			
Minimum docum Int.Cl <sup>7</sup>	nentation searched (classification system followed by cl F24C1/00, F24C7/02	assification symbols)	
Documentation s	earched other than minimum documentation to the exte	nt that such documents are included in th	e fields searched
Jitsuyo	Shinan Koho 1922-1996 To	roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data b	ase consulted during the international search (name of	lata base and, where practicable, search to	erms used)
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT	······································	
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X Y	Microfilm of the specification annexed to the request of Jap Model Application No. 57679/1 No: 172905/1986) (Hitachi Netsukigu Kabushiki 27 October, 1986 (27.10.86), Full text (Family: none)	anese Utility 985(Laid-open	1-7,11 8-10,12
X Y	Microfilm of the specification annexed to the request of Jap Model Application No. 57680/1 No. 172902/1986) (Hitachi Netsukigu Kabushiki 27 October, 1986 (27.10.86), Full text (Family: none)	anese Utility 985(Laid-open	1-7,11 8-10,12
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed  Date of the actual completion of the international search		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family	
	nary, 2005 (12.01.05)	08 February, 2005	(08.02.05)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No.		Telephone No.	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 55-53895 A (Hitachi Netsukigu Kabushiki Kaisha), 19 April, 1980 (19.04.80), Full text (Family: none)	1
<b>x</b>	JP 1-195692 A (Toshiba Corp.), 07 August, 1989 (07.08.89), Full text (Family: none)	1
Y	JP 9-229377 A (Sharp Corp.), 05 September, 1997 (05.09.97), Full text (Family: none)	8-10
Y	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 3036/1992(Laid-open No. 10707/1994) (Tiger Co., Ltd.), 10 February, 1994 (10.02.94), Full text (Family: none)	8-10
Y	JP 61-213513 A (Matsushita Electric Industrial Co., Ltd.), 22 September, 1986 (22.09.86), Full text (Family: none)	12
· Y	JP 57-9604 Y2 (Matsushita Electric Industrial Co., Ltd.), 24 February, 1982 (24.02.82), Full text (Family: none)	12
A	JP 57-19529 A (Tokyo Shibaura Electric Co., Ltd.), Ol February, 1982 (01.02.82), Full text (Family: none)	1-12
A	JP 8-128639 A (Sanden Corp.), 21 May, 1996 (21.05.96), Full text (Family: none)	1-12